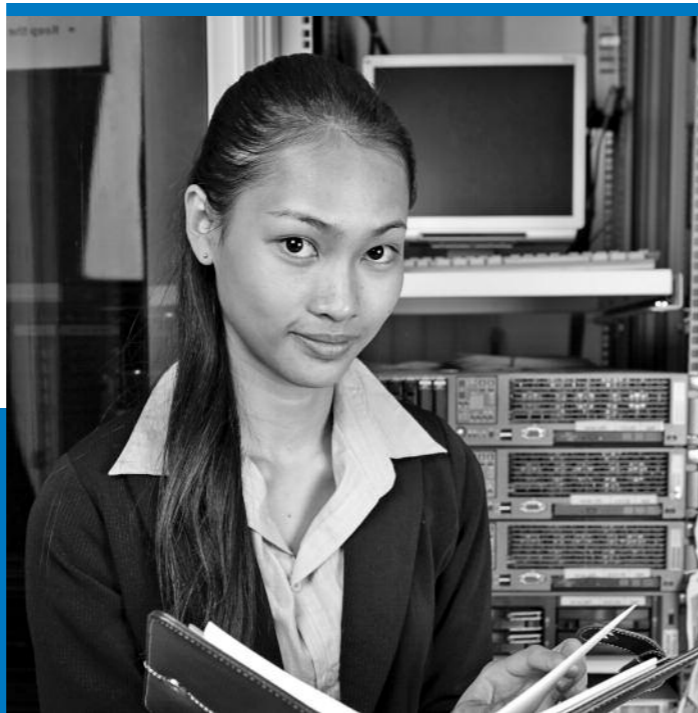


PARK UNIVERSITY

Degree Programs in

Information and Computer Science



For more information contact:

Information and Computer Science Program
(816) 584-6422
www.park.edu/ics

Park University
8700 N.W. River Park Drive
Parkville, MO 64152

Office of Admissions
Toll-free: (877) 505-1059
E-mail: admissions@park.edu
Fax: (816) 584-2151

www.park.edu

Accredited by the Higher Learning Commission of the
North Central Association of Colleges and Schools

Students have plenty of chances to work with the real world, and what they learn is not limited to books. The choice I made to earn a bachelor's degree at Park led me to be a confident and competitive candidate for my future career.

– Anna Luo
Park ICS Student



PARK
UNIVERSITY SM

An information and computer science degree from Park University prepares you for graduate study or careers in:

- Application Programmer
- System Analyst
- Web Programmer
- Information Technology
- (IT) Project Manager
- Database Analyst
- Network and Security Analyst

What can I do with an Information and Computer Science Degree?

With the tremendous volume of computers and computer software in today's business community, graduates in the computer field are in high demand. By earning a Bachelor of Science degree in information and computer science at Park University, students are properly positioned to meet that demand. Depending on their chosen area, Park ICS graduates are well prepared for industry positions such as applications programmer, systems analyst, web programmer, information technology project manager, database analyst, and network and security analyst. Park ICS graduates are also well prepared for computer-related graduate programs.

Park's ICS degree program has outstanding faculty with real-world experience. The faculty work to provide students with all the advantages they need to succeed. Small class sizes enable the faculty to give students the personal attention that is often required in this demanding field.



“Park's ICS professors know what employers want. From high-level project planning to hands-on technical skills, they provided me with an education that jump-started my career.”

– Bruce Jenkins
Park ICS Graduate

WHY STUDY INFORMATION AND COMPUTER SCIENCE AT PARK?

With the rapid pace of computer technology development, it's particularly important for computer degree programs to stay current. Park's ICS degree program uses current technologies such as Java, C++, VB.NET, C# and Linux in their curriculum. In addition, the program uses various web-based tools such as JavaScript, ASP.NET and Ajax in several courses. By staying current, Park's ICS degree program consistently produces highly marketable graduates.

Park's ICS degree comes in traditional and accelerated formats. For those interested in a traditional daytime program, we offer 16-week courses taught at the Parkville Campus. For those interested in an accelerated program, we offer 8-week evening/weekend courses taught at a number of sites throughout the United States (including three campus centers in the Kansas City area) and online.

The ICS degree is an umbrella program covering several different areas: computer science, software engineering, data management, and networking and security.

ICS students choose one or more of the four areas and then take courses from their chosen specialty area(s). In addition to taking their specialty area courses, all ICS students must take courses from the ICS core curriculum.

Park University is a Cisco Networking Academy. As such, the ICS networking and security specialty area curriculum includes a sequence of Cisco Certified Network Associate courses that prepare students for the CCNA certification exam.

Note: The first CCNA course has prerequisites of CS 208 (Discrete Mathematics) and CS 151 (Introduction to Programming), or consent of instructor. The consent-of-instructor option is for non-degree-seeking students.

A DEDICATED FACULTY

Park's information and computer science faculty have the expertise, experience and commitment necessary to prepare students for success. For more information about Park's ICS program, visit www.park.edu/ics, or contact:

John Dean, Department Chair and Assistant Professor
B.S., University of Kansas, 1985
M.S., University of Kansas, 1988
john.dean@park.edu / (816) 584-6422

Bachelor of Science in ICS

(122 credit hours required with 42 hours in the major, 2.0 GPA)

Core Curriculum:

CS 151 Introduction to Programming
CS 208 Discrete Mathematics
CS 219 Programming Fundamentals
CS 225 Programming Concepts
CS 300 Technology in a Global Society
CS 321 Web Programming I
CS 365 Computer Networking (1st CCNA course)
CS 373 Computer Network Security
IS 205 Managing Information Systems
IS 361 Data Management Concepts
MA 120 Basic Concepts of Statistics
MA 135 College Algebra

Specialty Areas

(four options available):

Computer Science

CS 220 Computer Architecture
CS 305 Introduction to Artificial Intelligence
CS 322 Web Programming II
CS 351 Computer Operating Systems
CS 352 Data Structures
MA 150 Precalculus Mathematics
MA 221 Calculus & Analytic Geometry for Majors I
—OR—
MA 210 Calculus & Analytic Geometry I —AND— MA 211 Calculus & Analytic Geometry II
MA 311 Linear Algebra

Software Engineering

AC 201 Principles of Accounting I
CS 220 Computer Architecture
CS 314 User Interface Design

CS 322 Web Programming II
CS 351 Computer Operating Systems
CS 352 Data Structures
IS 315 Computer Systems Analysis & Design I
MG 352 Principles of Management
MG 365 Organizational Behavior

Data Management

AC 201 Principles of Accounting I
CS 314 User Interface Design
CS 352 Data Structures
IS 315 Computer Systems Analysis & Design I
IS 362 Applied Database Management
MG 352 Principles of Management
MG 365 Organizational Behavior

Plus, select two of the following courses:

AC 202 Principles of Accounting II
CA 104 Interpersonal Communication I
CS 322 Web Programming II
EC 315 Quantitative Research Methods
HR 422 Organizational Development & Change
IS 316 Computer Systems Analysis & Design II
MK 351 Principles of Marketing
MK 385 Consumer Behavior
MK 453 Marketing Research & Information Systems

Networking and Security

CS 220 Computer Architecture
CS 351 Computer Operating Systems
CS 366 Computer Networking Laboratory (1-credit CCNA lab to be taken with CS 365)
CS 371 Internetworking (2nd CCNA course)
CS 372 Advanced Networking (3rd CCNA course)
CS385 Modern Developments in Advanced Networking (4th CCNA course)
IS 315 Computer Systems Analysis & Design I

MG 352 Principles of Management
MG 365 Organizational Behavior

Plus, select one of the following:

AR 427 Web Page Design

—OR—

CS/IS elective (any 3-hour credit CS/IS course level 300 or above that is not required by this specialty area)

Minor in ICS

(18 hours, 2.0 grade point average)

CS 151, CS 208, CS 219, CS 365, IS 205 and IS 361

Associate of Science in ICS

This degree is offered through these programs: School of Online Learning, School of Extended Learning (selected campuses), Kansas City Accelerated.

(29-30 credit hours required, 2.0 GPA)

CA 103 Public Speaking
CS 140 Introduction to Computers
CS 151 Introduction to Programming
CS 208 Discrete Mathematics
CS 219 Programming Fundamentals
IS 205 Managing Information Systems
MA 120 Basic Concepts of Statistics
MA 135 College Algebra

Electives selected from the following: 5-6 cr.

AC 201 Principles of Accounting I (3 cr.)
CS 220 Computer Architecture (3 cr.)
CS 225 Programming Concepts (3 cr.)
MA 141 College Trigonometry (3 cr.)
MA 210 Calculus & Analytic Geometry I (3 cr.)
MA 211 Calculus & Analytic Geometry II (3 cr.)
MA 221 Calculus & Analytic Geometry for Majors I (5 cr.)



“The ICS degree is for anyone who wants to capitalize on technology's promise for business, science or humanity in general.”

— Matthew Skinner-Thebo
Park ICS Graduate

Who should major in Information and Computer Science?

Students interested in mathematics, logic or solving puzzles tend to be good at programming and other areas within the information and computer science field. Those traits bode well for success in all four of the ICS specialty areas.

- **Computer Science:** Enjoy programming, math and problem solving
- **Software Engineering:** Love to program and are “business-minded”
- **Database Management:** Interested in the organization and retrieval of data, and comfortable interacting with a variety of people while managing multiple projects simultaneously
- **Networking and Security:** Intrigued by concepts behind computer communications and like to tinker